

Postdoctoral Position in Radiation Belt Physics - PDxxxxx

The Space and Remote Sensing Sciences Group¹ (NIS-2) in the Nonproliferation and International Security Division² is seeking postdoctoral candidates in the field of magnetospheric energetic particle physics. The successful candidate is expected to work on radiation belt models in conjunction with energetic particle data from ongoing missions leading to a model / data synthesis capable of accurate, global now-casting and limited forecasting of the energetic radiation belt environment.

NIS-2 has a long-standing programmatic involvement in the measuring of the energetic particle environment in the Earth's magnetosphere. This involves the continued design, building and operation of energetic particle instruments³ flown at geosynchronous orbit and on the GPS constellation. NIS-2 further plays an active part in energetic particle projects on ongoing NASA missions such as Polar (CEPPAD, CAMMICE) and Cluster (RAPID, CIS)⁴.

We expect the successful candidate to have modeling experience and familiarity with Fortran, C and IDL. Some exposure to parallel computing (PVM) would be advantageous. While this position is primarily in support of a funded research project⁵ under the current NASA "Living With A Star"⁶ program, the successful candidate will have ample opportunity for individual research on a wide range of energetic particle research topics in the Earth's magnetosphere (substorm / storm physics, relativistic electron dynamics, energetic neutral atoms). For additional technical information contact Reiner Friedel⁷ at friedel@lanl.gov⁸.

A Ph.D. in Physics or Physical Science completed within the last three years or soon to be completed is required. Candidates may compete for a Director's Fellowship and outstanding candidates may be considered for the prestigious J. Robert Oppenheimer, Richard P. Feynman or Frederick Reines Fellowships. Further details about the Postdoctoral Program may be found at: <http://www.hr.lanl.gov/postdoc/>⁹. For consideration, submit a resume and publications list along with a cover letter outlining current research interests to postdoc-jobs@lanl.gov¹⁰ (no attachments, please!).

¹<http://nis-www.lanl.gov/groups/nis-2/>

²<http://www.lanl.gov/orgs/nis/>

³http://leadbelly.lanl.gov/lanl_ep_data/lanl_ep.html

⁴<http://leadbelly.lanl.gov/ccr/>

⁵http://nis-www.lanl.gov/friedel/proposals/nra-00-01-LWS-007_rel_elect.pdf

⁶<http://lws.gsfc.nasa.gov/>

⁷<http://nis-www.lanl.gov/friedel/HOME/>

⁸<mailto:friedel@lanl.gov>

⁹<http://www.hr.lanl.gov/postdoc/>

¹⁰<mailto:postdoc-jobs@lanl.gov>

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A PDF version of this Postdoctoral Position description is available: PDxxxxx¹¹.

¹¹<http://nis-www.lanl.gov/friedel/postdoc/postdoc.1.pdf>